

**Causes and Prevention of Surface Fissures on Hot-
Worked Steel Products (1st Report) Influence of
Heating Conditions, Scaling Loss and Tramp Elements
on Surface Fissures, by T. Ohtake, et al. UNCL**

**JAPANESE, per, Nippon Kinsoku Gakkaishi, Sep 1957,
pp 536-540.**

*ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED*
**British Iron and
Steel Inst 13116**

**Sci - Min/Mat
Sep 59**

96,354

Effect of Drawing Temperature When Drawing
Steel Wire, II, by T. Nishioka.

JAPANESE, per, Nippon Kinzoku Gakkai, May
1958, pp 225-229, 229-233.

BISI 1648

Sci - Engr

Dec 60

134,013

Investigation of Pt-Mo Alloys, by H. Nishimura.

JAPANESE, per, Nihon Kinzoku Gakkaishi, Vol XXII,
No 3, 1952, pp 425-428.

AERE, Harwell Tr-234

ALL (LCA) 12 9 1952

Sci - Min/Metals, Chem
Jul 52

202,000

The Heat of Solution of Hydrogen in Metals, by
Saburo Yanagisawa, Akira Tsujioka, 12 pp.
JAPANESE, per, Nippon Kinzoku Gakkai-si.
Vol 23, No 2, 1959, pp 128-132.
AEC/UCRL-Tr-10384-69

Sci/Chem
Dec 69

311
68,117

FD (TDR) 23-11-26 BT68-10-33947
Request for check
Doc title: uric
Morikawa, B., Watanabe, A.
Jap pers: Journal of Japanese institute of metals, vol 23,
185-189, 1959

FD-HC-23-1463-68

Okamoto, G. and Sato, N.
EFFECT OF HYDROGEN ION CONCENTRATION
ON THE FLADE POTENTIAL OF NICKEL. [1962]

9p.

Order from ATS \$15.60

ATS-40P59]

Trans. of Nihon Kinzoku Gakkai-Shi (Japan) 1959,
v. 23, no. II, p. 662-666.

DESCRIPTORS: *Hydrogen ion concentration,
*Nickel, *Electric potential.

(Chemistry--Physical, TT, v. 8, no. 1)

62-17171

- I. Title: Flade potential
- I. Okamoto, G.
- II. Sato, N.
- III. ATS-40P59]
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

On the Measurement of Interstitial Carbon and
Nitrogen Contents, and the Strain-Amplitude
Dependence of Internal Friction in Commercial
Steels, by K. Aoki, et al.

JAPANESE, per, Nippon Kinzoku Gakkai-shi,
Dec 1959, pp 696-698.

BISI 1755

Sci - Min/Mat

134,022

Dec 60

Internal Friction in Quench-Hardened Low-Carbon
Steel and Cold-Worked Iron, by T. Ichiyama, et al.

JAPANESE, per, Nippon Kinzoku Gakkai-si, Dec 1959,
pp 717-721.

BISI 1756

Sci - Min/Mat

Dec 60

134,024

62-22290

Yoshida, Akito.
ACTIVITIES OF IRON OXIDES IN SLAGS OF THE
FeO-Fe₂O₃-CaO-SiO₂ SYSTEMS AND THE EQUI-
LIBRIUM OXYGEN PRESSURE OF O₂-SLAG-LIQ-
UID IRON, tr. by K. Shimizu. 1962, 13p. 10 refs.
NRCC Technical Trans. 1030.
Order from NRCC \$1.00

NRCC C-4050

Trans. of Nihon Kinzoku Gakkai-Shi (Japan) 1960,
v. 24, no. 1, p. 50-54.

DESCRIPTORS: *Slags, *Iron compounds, Calcium
compounds, Silicon compounds, Oxides, *Oxygen,
Pressure, Chemical equilibrium, Thermodynamics,
Liquid metals.

(Metallurgy, TT, v. 8, no. 7)

- I. Yoshida, A.
- II. NRCC TT-1030
- III. NRCC C-4050
- IV. National Research
Council of Canada

Office of Technical Services

61-18297

Monma, Kaizo and Suto, Hajime.

ON THE SURFACE TENSION OF PURE METALS.

Pt. 1 of Fundamental Studies on Cermets. [1961] [15]p.
17 refs.

Order from SLA \$1.60

61-18297

Trans. of Nihon Kinzoku Gakkai Shi (Japan) 1960,
v. 24, no. 2, p. 117-122.DESCRIPTORS: *Liquid metals, Surface tension,
*Cermets.We first describe the measurement of surface tension
of molten metals by the sessile drop method, and then
deduce a semi-theoretical equation as follows:

$$U_s = Bm(Lv - RT/2)N^{-\frac{1}{3}}V^{-\frac{2}{3}} \text{ or } \gamma = KmLvN^{-\frac{1}{3}}V^{-\frac{2}{3}},$$

where U_s is the surface energy, γ the surface tension,
 Lv the molar heat of vaporization, N the Loschmidt's
(Metallurgy, TT, v. 6, no. 9) (over)

- I. Monma, K.
- II. Suto, H.
- III. Title: Fundamental...

100435

Office of Technical Services

Okamoto, G. and Sato, N.
A CONTRIBUTION TO EXPERIMENTAL METHODS
FOR KINETIC STUDY OF THE ANODIC FORMATION
OF THIN OXIDE FILMS ON METALS: KINETICS OF
ANODIC FORMATION OF PASSIVE OXIDE FILMS ON
NICKEL. [1962] 9p.
Order from ATS \$15.80

ATS-41P59J

Trans. of Nippon Kinzoku Gakkai-Shi (Japan) 1960,
v. 24, no. 2, p. 130-134.

DESCRIPTORS: *Metals, *Thin films, *Oxides,
*Anodes(Electrolytic cell), *Nickel, Films, Passivity

(Metallurgy, TT, v. 8, no. 2)

62-17172

- I. Okamoto, G.
- II. Sato, N.
- III. Title: Kinetics ...
- IV. ATS-41P59J
- V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Experimental Studies of Surface Tension of
Substitutional Binary Alloys. II. Fundamental
Studies on Cermets, by K. Monma, H. Suto.

JAPANESE, per, Nippon Kinzoku Gakkai-Si, Mar 1960,
pp 163-167.

*BISI E 2021

Sci - Min/Met; 1/1000

Apr 61

Experimental Studies of the Surface Tension of
Fe-Co-NiC Alloys. III. Fundamental Studies
on Cermets, by K. Monma, H. Suto.

JAPANESE, per, Nippon Kinzoku Gakkai-Si, Mar
1960, pp 167-170.

*BISI E 2022

Sci - Chem; Min/Met

Apr 61.

Determination of the Solubility and Diffusion
Coefficient of Hydrogen in Zirconium, by
Matsumi Someno.
JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 24,
1960, pp 249-253.
AEC WAPD-Trans-86

Sci-Chem
July 68

357,428

Monma, Kazuo and Suto, Hajime.
EFFECT OF DISSOLVED SULFUR ON THE SURFACE
TENSION OF LIQUID COPPER. Pt. 4 of Fundamental
Studies on Cermet. [1961] [12]p. 14 refs.
Order from SLA \$1.60

61-18298

Trans. of Nihon Kinzoku Gakkai Shi (Japan) 1960, v. 24,
no. 6, p. 374-377.

DESCRIPTORS: *Liquid metals, *Cermet, *Copper,
Surface tension, Sulfur, Adsorption, Metallurgy

The effect of dissolved sulfur on the surface tension of
liquid copper was measured by the sessile drop method
at 1114°, 1200°, 1300° and 1340°C. Sulfur is highly
"surface active" in liquid copper, and at a sulfur con-
tent of 0.4%, the surface tension is lowered by about
620 dyn·cm⁻¹ at 1114°, 580 dyn·cm⁻¹ at 1200°, 530
dyn·cm⁻¹ at 1300° and 470 dyn·cm⁻¹ at 1340°C. re-
(Metallurgy, TT. v. 6, no. 8)

(over)

61-18298

I. Monma, K.
II. Suto, H.
III. Title: Fundamental...

100145

Office of Technical Services

Yamada, Kazuo and Sato, Hajime.

EFFECT OF DISSOLVED OXYGEN ON THE SURFACE TENSION OF LIQUID COPPER. Pt. 5 of Fundamental Studies on Cermets. [1961] [10p. 5 figs. omitted] 6 refs.

Order from SLA \$1.10

61-20501

Trans. of Nihon Kinzoku Gakkai-Shi (Japan) 1960, v. 24, no. 6, p. 377-379.

DESCRIPTORS: *Liquid metals, *Cermets, *Copper, Surface tension, Oxygen, Adsorption, Metallurgy.

The surface tension of pure copper in a CO atmosphere is 1270 dyn/cm^2 which decreases significantly with the content of O. This phenomenon is more significant at lower temperatures. The surface excess of O at the surface of molten copper is estimated. Ac- (Metallurgy, TT, v. 7, no. 5) (over)

61-20501

I. Abstract, II. Summary, III. Title: Fundamental ...

Office of Technical Services

Treatment of Metal Surfaces With Acid Hydrogen Peroxide Solutions, by H. Kawamura, (Condensed Trans.).

JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol XXIV, No 1960, pp 710-714.

HB 58:9

Sci-M/M
Jan 64

246, 350

TT-64-10551

Tanimura, Hiromu and Taniguchi, Kiichi
EFFECTS OF THE FORM OF GRAPHITE ON THE
MECHANICAL PROPERTIES OF GRAY CAST IRON.
[1963] [19p] (foreign text included) 11 refs
Order from SLA \$1.60

TT-64-10551

Trans. of [Nihon] Kinzoku Gakkai-Shi (Japan) 1961,
v. 25 [no. 2] p. 116-120. (Abstract available)

DESCRIPTORS: *Iron alloys, *Castings, Mechanical
properties, *Graphite, Microstructure, Test
methods,

The mechanical properties of gray cast irons were ex-
amined, where the structure of matrix is kept constant
and the form of graphite is variable. Three groups of
cast-iron specimens were prepared, having (1) uni-
formly distributed flaky graphite (2) eutectic form of
graphite in cellular distribution (3) and the mixed type
of the two mentioned above. Tensile tests with precise
(Metallurgy--Ferrous Metals, TT, v. 11, no. 10)(over)

I. Tanimura, H.
II. Taniguchi, K

Office of Technical Services

Electrolytic Fabrication of Very Fine Holes, by
Ro Harunichi.
JAPANESE, per. Nippon Kinsaku Gakkaishi, Vol 64,
No 511, Aug 1961, pp 1149-1157. P911063868-V
AEC ORNL-Tr-1827

Sci/Math & Equip
Apr 68

351.303

Effect of Zinc and Aluminum on Corrosion of
Aluminum Brass by Polluted Water, by Zenichi Tanabe.
JAPANESE, per. Nippon Kinzoku Gakkaishi, Vol 27,
No 7, 1963, pp 337-341.
*AEC/ORNL

Sci/Chem
Feb 70

Plastic Strain Ratio of Single
Crystals of Low Carbon Steel,
by G. Nagashima, S. Sekino, et al.
JAPANESE, per, Nippon Kinzoku
Gakkaishi, Vol 27, No 10, 1963,
pp 481-485.
NIST 4041

FE-Japan
Sci/ENR
Jul 65

282,835

Direct Observation of the Transformation
From θ' to θ Phase During Precipitation
in an Al-Cu Alloy, by M. Nenoto, S. Noda.
JAPANESE, per, Nihon Kinzoku Gakkai, Vol 27,
No 12, 1963, pp 599-604.
NLL Ref: 9022.09 1965 (4021)

Sci-MEM
June 66

302,245

Properties of Zinc-0. 6%, Copper-0.
10% Titanium Rod Wire, by T. Kido.
JAPANESE, per Nihon Kinzoku Gakkaishi
Vol. 28, No. 2, 1964, pp 86-90
GB 72

Sci -
Aug 67

337-463

Effect of Cobalt and Tungsten on the
Activity of Nitrogen in Austenite,
by T. Mori, E. Ichise.
JAPANESE, per, Nippon Kinzoku Gakkai Shi,
Vol XXVIII, No 3, 1964, pp 145-148.
NASA TT F-9864

U. S. GOVERNMENT USE ONLY

~~Sci-~~ N. Sci

May 66

300,874

Diffusion of Ni-63 and Cr-51 in Ni-Cr
Alloys. On the Relation Between High-
Temperature Creep and Diffusion in
Nickel Base Solid Solutions, by K. Monma,
5 pp.

JAPANESE, per, Nippon Kinzoku Gakkaishi
28, 1964, pp. 188-192.

*Nat. Bur. Stand. TT 70-57153

Sci/chem
May 70

Diffusion of Ni-63 and Cu-64 in Ni-Cu Alloys. On the Relation Between High-Temperature Creep and Diffusion in Nickel Base Solid Solids; by K. Monma, 5 pp. JAPANESE, per, Nippon Kinzoku Gakkaishi, 28, 1964, pp. 192-196.

*Nat. Bur. Stand. TT 70-57154

Sci/chem
May 70

Diffusion of Ni-63 and W-185 in Ni-W alloys. On the
Relation Between High-Temperature Creep and Diffusion
in Nickel Base Solid Solutions, by K. Monma.
JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 28,
1964, pp 197-200.
*CFSTI TT 70-57155

Sci-Chem
June 70

High-Temperature Creep of Ni-Cr Alloys,
by K. Morita, 6 pp.
JAPANESE, per, Nippon Kinzoku Gakkaishi,
28, 1964, pp. 253-258.
*Nat. Bur. Stand. TT 70-57169

Sci/chem
May 70

High-Temperature Creep of Ni-Cu Alloys,
by K. Morita, 6 pp.
JAPANESE, per, Nippon Kinzoku Gakkaishi,
28, 1964, pp. 258-263.
*Nat. Bur. Stand. TT 70-57170

Sci/chem
May 70

High-Temperature Creep of Nickel-Tungsten
Alloys, by Kaizo Monma, Hajime Suto et al. 9 pp.
JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 28,
1964, pp 304-307.
AEC ORNL-tr-552

Sci/M&M
Jun 66

301,103

Relation Between High-Temperature Creep
and Diffusion in Alloys, by K. Monma, 5pp.
JAPANESE, per, Nippon Kinzoku Gakkaishi,
28, 1964, pp. 308-312.
*Nat. Bur. Stand. TT 70-57168

Sci/phy#
May 70

Diffusion of Silver in Molten Lead-Tin
Alloys, by S. Inagaki.
JAPANESE, per Nihon Kinzoku Gakkaishi, Vol. 28
No. 6, 1964, pp 348-353
GB 72

Sci -
Aug 67

137-400

Creep Characteristics as Related to the
Heat-Treatment and Microstructures in Stain-
less Steel Stabilized by Titanium,
by Eiichi Myoshi.

JAPANESE, per, Nippon Kinzoku Gakkaishi,
Vol XXVIII, 1964, pp 604-610. 9232107
AEC-ORNL-Tr-963

Sci - 14/1
Mar 66

298,517

NIPPON KOSYO KAISEI

1956 072 P-07-112

1-241 (25)

1-241 (25)

1956 072 P-07-112

Study of the Purification of Zinc Sulfate
Solutions: the Removal of Cobalt and Its
Mechanism, by S. Goto.
JAPANESE, per, Nippon Kogyo Kaishi, Vol 72,
1956, pp 414-419.
NTC-69-16520-11F

Sci-Materials
Feb 70

402,908

Kushima, I. and Asano, N.
REASON FOR INSOLUBILITY OF COPPER IN
ROASTED PRODUCTS. Rept. no. 3, on Roasting and
Leaching of $\text{Ni}_2\text{S}-\text{Cu}_2\text{S}$ System. (1961) [8]p. 6 refs.
Order from SLA \$1.10 61-10733

Trans. of Nihon Kogyo Kaishi (Japan) 1957, v. 73,
p. 837-841.

DESCRIPTORS: *Copper, *Ores, Processing,
Solubility, *Smelting.

61-10733

I. Kushima, I.
II. Asano, N.
III. Title: Roasting...

10772

Office of Technical Services

(Engineering--Chemical, TT, v. 6, no. 2)

Mukai, S., Kano, G., and others.
ABOUT THE ADSORPTION OF SURFACE ACTIVATOR
AND THE CHANGE OF SURFACE ELECTRO KINETIC
POTENTIAL OF MINERAL PARTICLES. 12p. 8 refs.
Order from OTS or ETC \$1.85 62-26046

Trans. of Nippon Kogyo Kaishi (Japan) 1959, v. 75,
p. 167-172.

DESCRIPTORS: *Minerals, Particles, *Flotation,
Adsorption, Electrochemistry, *Thermodynamics,
Surfaces.

62-26046

I. Mukai, S.
II. Kano, G.

Office of Technical Services

Tsurmoto, Tamon.

INVESTIGATION OF COPPER SMELTING USING
OXYGEN-ENRICHED AIR. [1961][22]p.

Order from SLA \$2.60

61-10738

Trans. of Nihon Kogyo Kaishi (Japan) 1959, v. 75,
no. 858, p. 1105-1112.

DESCRIPTORS: *Copper, *Ores, Processing,
*Smelting, Oxygen.

An industrially feasible process for smelting copper
ores using oxygen-enriched air and a Pierce-Smith type
converter is described. A summary is given of tests
carried out at the Saganoseki smelting works in Japan
during the years 1952 to 1954.

(Metallurgy, TT, v. 6, no. 3)

61-10738

I. Tsurmoto, T.

275181

Office of Technical Services

Tsurumoto, Tamon.
SMELTING OF COPPER ORES AND CONCENTRATES
BY CONVERTER, USING OXYGEN-ENRICHED AIR
AT HITACHI MINES. [1961] [58]p.
Order from SLA \$5.60

61-10739

Trans. of Nihon Kogyo Kaishi (Japan) 1960, v. 76,
no. 861, p. 179-195.

DESCRIPTORS: *Copper ores, Processing. Oxygen.
Metallurgy, Ores.

The oxygen-enriched air smelting of copper in a con-
verter has reduced smelting costs, improved the yield
of gold, silver and copper, and made for effective
utilization of iron and sulphur from the Copper ore.

(Metallurgy, TT, v. 6, no. 1)

61-10739

I. Tsurumoto, T

161603

Office of Technical Services

Studies on Al - Ti Alloys, by Titman, Britton C.
Barry, Kenne, et al. 22 pp.
ABSTRACT, per, Michael Agya Gaihi, Vol 79, PMS.
p. 467-475.
MC NIS-11-6

Sci/Sch/ Materials
Apr 67

320,000

On the Study of Radon Removal With Active Carbon,
by Nobuo Fusamura, Ryuhel Kurosawa, et al, 35 pp.
JAPANESE, per, Nippon Kogyo Kaishi, Vol LXXIX,
1963, pp 590-569. 9223485
AEC-SC-T-64-904

Sci-Chem
Oct 64

267,816

Agency: Dir/Bu of Mines
P.O.No. P3190561

R-10,012-D
30 December 1968

Title: Relation between the Electrode Potential of
Sulphide Minerals and their Floatability

Author: Shigery Mukai

Source: Nippon Kogyo Kaishi, Vol. 80, No. 914 1964

Language: Japanese

Special Instruction: Please translate and type 1 copy only

Relation Between the Electrode Potential of
Sulfide Minerals and Their Floatability,
by S. Mukai, T. Wakamatsu.
JAPANESE, par, Nippon Kogyo Kaishi, Vol 80,
No 914, 1964, pp 675-682.
NFC-69-15750-089

Sci-Ear Sci
Feb 70

402,913

62-16729

1. Title: It ...

APPEARANCE OF EPOCH-MAKING VTR (VIDEO TAPE RECORDER): IT WORKS WITH ONE HEAD - TEST PRODUCT NO. 1 MADE PUBLIC BY TO SHIBA (TCKYO SHIBAURA ELECTRIC CO. LTD.). [1962] 5p. (figs. omitted).

Order from SLA \$1.10

62-16729

Trans. from Nikkan Kogyo Shimbun (Japan) 1959, 15 Sep.

DESCRIPTORS: *Video signals, Recording systems, *Magnetic recording systems, Television equipment, Japan.

(Engineering--Electronic, TT, v. 9, no. 6)

Office of Technical Services

Communist China's Machine Tool Industry Today, 11 pp.
JAPANESE,
RECEIVED per, Nihon Kogyo Shinbun, 13-17 Jul 1960.
LA 654953

USACRAPAC, PD
Tr No 102369 (1a)

1 - China
son
sp 60

127,147

Communist China's Spinning Industry and Future
Prospects, 8 pp.

JAPANESE,

~~RECEIVED~~, per, Nihon Kogyo Shinbun, 21, 22 Jul 1960.

IA 654958

USACRAPAC, PD
Tr No 102388 (1a)

E - China

icon

ep 60

127,146

problems of Japan-North Korea Trade, 7 pp.

APANESE,

MEMOR, per, Nihon Kogyo Shimbun, 29, 30 Jul 1960.

IA 657773

USACRAPAC, PD

Tr No 102442 (2a)

3 - Japan, Korea

son

ip 60

127,150

Communist China's Fertilizer Industry, / pp.
JAPANESE,
~~CHINESE~~, per, Nihon Kogyo Shinbun, 2 Aug 1960.
CIA 657776

USACRAPAC, PD
Tr No 102340 (2a)

FE - China
Econ
Sep 60

127,149

How to Approach Communist China (Political/
Economic Situation), by Hateno Kanichi, 5 pp.

JAPANESE, per, Nihon Kogyo Shinbun, 1962,
pp 12-14. 9664265

500th INTC Gp 105599

ASIA
Pol, Econ
12 Mar 62

187, 068

Minac Coated Steel Sheet, by H. Takano, K. Toki.
JAPANESE, rpt, Nippon Kohan, No 9, 1962,
pp 209-221.
*BISI 3681

Sci - M/M
Apr 64

Effect of Trip on Ship Turning Qualities,
by A. Iwai.
JAPANESE, per, Nihon Kokai Gakkaishi, Vol 26,
1961, pp 49-.
NLL Ref: 9022.0655 1966 (2224)

Sci-Engr
Aug 66

508,545

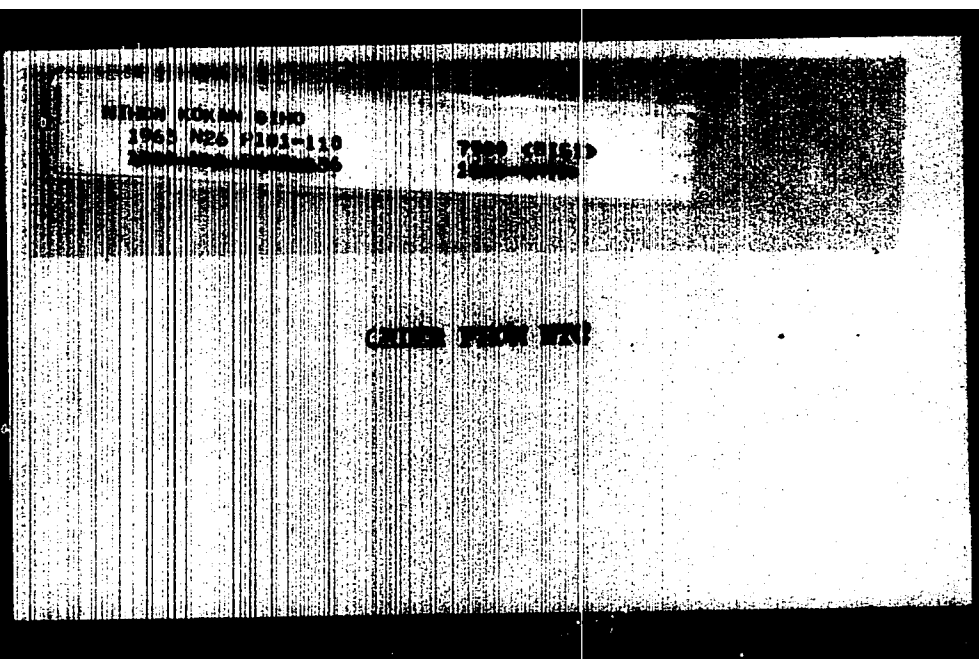
Wind Forces Acting on a Moored Ship,
by A. Iwai, S. Yajima.
JAPANESE, per, Nihon Kokai Gakkaishi,
Vol 26, No 12, 1961, pp 55-.
NLL Ref: 9022,065. 1966 (2223)

Sci-Mech Indus Civil
Marine Engineering 309,559
Sept 66

Wear of Cylinder Liners, Part 1, by T. Nakano.
JAPANESE, per. Nihon Kokai Gakkaishi, Vol 31,
1964, p 53.
NII 9022.065 (2399)

Sci-Prop and Fuels
Jul 68

361,629



Continuous Cooling Transformation
Diagram and Isothermal Diagram of Low
C 2 1/4%Cr 1% Ni Steel and 1 1/4 Cr.
3/4% Si. 1/2% Ni Steel for Boiler
Tubes, by T. Mimino, Y. Umezawa.
JAPANESE, per, Nippon Kogan Tech. Re.
May 1963, pp 36-49.
NISI 3088

PH-Japan
Sci/1891
Jul 65

282,432

The Condition of Hot Strip, by
K. Yamada, et al.
JAPANESE, per, Nippon Kokan Tech.
Rep., Oct 1963, pp 54-62.
*BIBL 4279

FE-Japan
Sci/1334
Jun 65

Large-Sized Capped Steel Ingot for
Rolled Sheet, by H. Nakamura et al.
JAPANESE, per, Nippon Kohan Techn. Rep.
Dec. 1963, pp 17-24.
*DISI 4040

Sci-14/11
May 65

279,455

"Altight" Aluminized Steel Sheet, by K. Toki, et al.,
JAPANESE, per. Nippon Kokan Techn. Rep., No 5,
1963, pp 101-110.
BISI 7900

Sci/Mat
Mar 70

404,205

Large-sized Capped Steel Ingot for
Thin Polished Steel Sheets, by
T. Katsura, et al.
J. WILKINSON, per. Nippon Kogan Tech. Rev.,
No 28, Dec 1963, pp 425-432.
NISE 4040

Oct/1964
Oct 65

Nov, 65

Introducing Special Products Made by
Mizuo Steel Works A. Hincac Coated Steel
Sheet, by S. Takiguchi.
JAPANESE, per, Nippon Kokan Techn. Rep.,
No 30, 1964, pp 187-198.
*BISI 4995

Sci-Materials
Sept 66

Introducing Special Products Made by Mizue
Steel Works B. Aluminized Steel Sheet:
Altight, by Y. Ishizu.
JAPANESE, per, Nippon Kokan Techn. Rep.,
No 30, 1964, pp 199-203.
*BISI 4996

Sci-Materials
Sept 66

62-20353

I. Sunakawa, M.

Sunakawa, Megumi.

THERMAL DEFORMATION OF A RECTANGULAR
PLATE SUBJECTED TO KINETIC HEATING (WHEN
FOUR SIDES ARE CLAMPED: TECHNICAL THESIS.
[1961] [18]p. (foreign text included) 11 refs.
Order from SLA \$1.60

62-20353

Trans. of Nihon Koku Gakkaishi (Japan) 1961, v. 9,
no. 85, p. 37-42.

DESCRIPTORS: Theses, *Metal plates, Deformation,
Temperature, Distribution, *Aerodynamic heating,
Heating, Elasticity, Thickness, Thermal stresses,
Partial differential equations.

The thermal deformation of a rectangular plate, sub-
jected to an arbitrary symmetrical temperature dis-
tribution, is analyzed for the case where the edges of
the plate are clamped in addition to the previous paper
(Engineering--Aeronautical, TT, v. 7, no. 5) (over)

201441

Office of Technical Services

Mimura, Y., Sakao, F., and Hasikuni, M.
PROBLEMS CONCERNING COOLED WALLS OF CHANNELS IN A-C AND D-C MDH ELECTRIC POWER GENERATORS. [1962] 13p.
Order from ATS \$24.50 ATS-58P62]

Trans. of Nihon Koku Gakkaishi (Japan) 1962, v. 10, no. 101, p. 174-179.

DESCRIPTORS: *Generators, *Electric power production, *Alternating current, *Direct current, Electrical equipment.

(Engineering--Electrical, TT, v. 9, no. 1)

62-34163

- I. Mimura, Y.
- II. Sakao, F.
- III. Hasikuni, M.
- IV. ATS-58P62]
- V. Associates Technical Services, Inc., East Orange, N. J.

Office of Technical Services

Conditions of Hot Strip, by K. Yamada,
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